

### **AMENDMENTS TO THE CLAIMS**

*The listing of claims will replace all prior versions and listings of claims in the application:*

Listing of Claims:

1. **(Currently Amended)** A data storage system comprising:  
a plurality of storage nodes, each node existing at a physical location and each storage node having one or more associated contexts that define characteristics of each storage node, the contexts including a political context, an economic context, a geographic context or a network topological context;  
interface mechanisms coupled to each storage node for communicating storage access requests with the storage node, at least one storage access request including performance criteria that define storage characteristics that are desired for data associated the storage access requests; and  
data storage management processes that select one or more of the storage nodes to serve ~~[[a]]~~ the at least one data storage request based at least in part upon the one or more particular contexts associated with each of the storage nodes that satisfy the performance criteria, wherein the one or more contexts are used to discriminate differences between the plurality of storage nodes and identify the selected one or more storage nodes to serve the at least one data storage request.
2. **(Original)** The system of claim 1 wherein the data storage management processes comprise computer-implemented processes executing in at least one of the storage nodes.
3. **(Original)** The system of claim 1 wherein the data storage management processes comprise computer-implemented processes executing in all of the storage nodes.

4. **(Currently Amended)** The system of claim 1 wherein the data storage requests are associated with a set of desired performance criteria identify storage characteristics including one or more of cost, location, security, availability, or network connectivity.

5. **(Currently Amended)** The system of claim 1 wherein the data storage requests are associated with a set of desired criteria and the data storage management processes comprise processes for matching the desired performance criteria to the contexts of the storage nodes.

6. **(Original)** The data storage system of claim 1 wherein the data storage management processes present a unitary logical volume of data storage to external devices generating the storage access requests to the selected one or more storage nodes.

7. **(Currently Amended)** The data storage system of claim 6 wherein the selected one or more storage nodes are selected such that the contexts of the selected one or more storage nodes that are associated with the unitary logical volume satisfies satisfy the desired performance criteria associated with the storage access requests, one or more storage nodes.

8. - 11. **(Cancelled)**

12. **(Original)** The data storage system of claim 1 further comprising encryption mechanisms coupled to the interface mechanisms for encrypting storage access requests during communication between nodes.

13. **(Original)** The data storage system of claim 1 further comprising authentication mechanisms coupled to the interface mechanisms for authenticating storage nodes before communicating storage requests.

14. **(Currently Amended)** A method of managing distributed data storage comprising the acts of:

providing a plurality of distributed storage nodes, each node existing at a physical location and each node having one or more associated contexts that define storage characteristics of each node, the contexts including a political context, an economic context, a geographic context or a network topological context;

receiving a data storage task in one of the storage nodes;

determining desired criteria associated with the received data storage task, wherein the desired criteria define storage characteristics for the data storage task;

selecting one or more of the plurality of storage nodes by matching the desired criteria to the associated contexts ~~having an associated context satisfying the desired criteria,~~ wherein the selected one or more of the plurality of storage nodes have contexts that satisfy the desired criteria; and

executing the storage task in the one or more selected storage nodes.

15. **(Previously Presented)** The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes where neither of the at least two storage nodes individually satisfy the desired criteria, but collectively the at least two storage nodes satisfy the desired-criteria.

16. **(Original)** The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different geographical locations.

17. **(Original)** The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different areas of a single data center.

18. **(Original)** The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are connected via different network backbones in a single data center.

19. **(Original)** The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different data centers.

20. **(Original)** The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different cities.

21. **(Original)** The method of claim 14 wherein the selected storage nodes comprise at least two storage nodes and the at least two storage nodes are located in different political jurisdictions.

22. **(Original)** The method of claim 14 wherein the selection is based upon socio-economic attributes of the physical location of the data storage node.

23. **(Previously Presented)** The method of claim 14 wherein the selecting step further comprises matching the desired criteria to a context associated with the one or more storage nodes.

24. **(Original)** The method of claim 14 wherein the act of storing comprises storing the data according to a distributed parity scheme analogous to parity distribution found in RAID subsystems.

25. **(Original)** The method of claim 24 wherein the parity paradigm comprises an N-dimensional parity mechanisms where "N" is greater than three.

26. **(Original)** The method of claim 14 wherein the act of storing comprises storing the data in a manner such that the data stored in any one storage node cannot be used in any meaningful fashion without the availability of some or all of the data stored in other storage nodes.

27. **(Currently Amended)** A data storage service comprising:
- receiving data storage access requests from a file system, the storage access requests including performance criteria that defines storage requirements for data associated with the storage access requests;
  - maintaining a state information data structure including state information describing the contexts of a number of network-accessible storage devices, wherein the contexts include a political context, an economic context, a geographic context or a network topological context and wherein the contexts are used to discriminate between storage characteristics of the number of network-accessible storage devices; and
  - using the state information to allocate capacity within the network-accessible storage devices to handle the received data storage request by using capacity having contexts that satisfy the performance criteria.
28. **(Original)** The data storage service of claim 27 wherein the act of maintaining the state information data structure comprises:
- detecting a change in state information associated with at least one of the network-accessible storage devices; and
  - updating the state information associated with the at least one network-accessible storage device to include the change in state information.
29. **(Original)** The data storage service of claim 27 further comprising:
- dynamically re-allocating capacity within the network-accessible storage devices in response to detecting a change in their associated contexts.

30. **(Original)** The data storage service of claim 29 wherein the dynamic re-allocating is done in the absence of an externally generated data storage access request.

31. **(Cancelled)**